

| LOUIS STOKES VA MEDICAL CENTER, CLEVELAND | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------------------------------|---------|-----------|------------|------------------------------|------|------------------|------|--|------------------|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| STEAM TRAP MONITORING SYSTEM, INSULATION AND PIPING UPGRADES | | | | | | | | | | | | | | | | | | | | | | | | |
| STEAM TRAP TAG NO. | LOCATION | TRAP DRAWING REFERENCE NO. LOCATION | AREA | TRAP TYPE | ELEV. AFF. | TRAP MODEL, MFG. & PIPE SIZE | P IN | EQUIPMENT SERVED | COND | REMARKS | NO WORK REQUIRED | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ | ⑪ | ⑫ | ⑬ |
| 171 | MAIN PENHOUSE STAIRWELL #6 PENHOUSE AC-17 SIDE HEAT EXCHANGER | 3-4H2 | 2 | F | 3 | 2" DUNHAM BUSH 30-84S | 10M | HEAT EXCHANGER | CO | STEAM TRAP IS COOL, OUT OF SERVICE. IF REQUIRED, REPAIR WITH TUNSTALL #IRK-S-15A REPAIR KIT. TRAP HAS STEAM TRAP IS MOUNTED AT HEAT EXCHANGER OUTLET & INSTALL TUNSTALL VBS-34M STEAM SERVICE VACUUM BREAKER. INSPECTED 7/27/12. | | | | | | X | | | | | | | | |
| 172 | MAIN PENHOUSE STAIRWELL #6 PENHOUSE AC-17 SIDE HEAT EXCHANGER | 3-4H2 | 2 | F | 3 | 2" DUNHAM BUSH 30-84S | 10M | HEAT EXCHANGER | OK | STEAM TRAP IS OK. WHEN WORK, REPAIR WITH TUNSTALL #IRK-S-15A REPAIR KIT. STEAM TRAP IS MOUNTED IN PARALLEL TO TRAP #171. INSPECTED 7/27/12. | X | | | | | | | | | | | | | |
| 173 | MAIN PENHOUSE STAIRWELL #6 AC-17 AHU STEAM COIL, NORTH | 3-4H2 | 2 | F | 2 | 2" TUNSTALL TAFT-15 | 10M | STEAM COIL | CP | STEAM TRAP IS COOL, SHOULD BE HOT. STEAM CONTROL VALVE MALFUNCTION. IF REQUIRED, REPAIR STEAM TRAP WITH #58K-1A-15 FACE PLATE REPAIR KIT. TRAP HAS STEAM SERVICE VACUUM BREAKER IN OUTLET & HAS INSULATION COVER. INSPECTED 7/27/12. | | | | | | | | | | | | | | |
| 174 | MAIN PENHOUSE STAIRWELL #6 AC-17 AHU STEAM COIL, NORTH | 3-4H2 | 2 | F | 2 | 2" TUNSTALL TAFT-15 | 10M | STEAM COIL | CP | STEAM TRAP IS COOL, SHOULD BE HOT. STEAM CONTROL VALVE MALFUNCTION. IF REQUIRED, REPAIR STEAM TRAP WITH #58K-1A-15 FACE PLATE REPAIR KIT. TRAP HAS STEAM SERVICE VACUUM BREAKER IN OUTLET & HAS INSULATION COVER. INSPECTED 7/27/12. | | | | | | X | | | | | | | | |
| 175 | MAIN PENHOUSE STAIRWELL #6 AC-17 AHU STEAM COIL, SOUTH | 3-4H2 | 2 | F | 2 | 2" TUNSTALL TAFT-15 | 10M | STEAM COIL | OK | STEAM TRAP IS OK. WHEN WORK, REPAIR WITH #58K-1A-15 FACE PLATE REPAIR KIT. TRAP HAS STEAM SERVICE VACUUM BREAKER AT COIL OUTLET. INSPECTED 7/27/12. | X | | | | | | | | | | | | | |
| 176 | MAIN PENHOUSE STAIRWELL #6 AC-17 AHU STEAM COIL, SOUTH | 3-4H2 | 2 | F | 2 | 2" TUNSTALL TAFT-15 | 10M | STEAM COIL | OK | STEAM TRAP IS OK. WHEN WORK, REPAIR WITH #58K-1A-15 FACE PLATE REPAIR KIT. TRAP HAS STEAM SERVICE VACUUM BREAKER AT COIL OUTLET. INSPECTED 7/27/12. | X | | | | | | | | | | | | | |
| 177 | MAIN PENHOUSE STAIRWELL #6 AC-17 SOUTH CORNER UNIT HEATER | 3-4H2 | 2 | F | 22 | 3/4" ARMSTRONG 15-83 | 10 | UNIT HEATER | CO | STEAM TRAP IS COOL, OUT OF SERVICE. IF REQUIRED, REPAIR WITH TUNSTALL #IRK-15-83 FACE PLATE REPAIR KIT. HAS CHECK VALVE IN REVERSE IN OUTLET AS VACUUM BREAKER AND IS PLUGGED. REMOVE AND INSTALL TUNSTALL VBS-34M STEAM SERVICE VACUUM BREAKER. HAS COPPER CONDENSATE DISCHARGE LINE. INSPECTED 7/27/12. | | | | | | | X | | | | | | | NOTE 1 |
| 178 | 1ST FL. SPD STERILIZER DRP #1 | 3-1-1 | 3 AND 4 | B | 3 | 1/2" SPRAXL B1H-125 | 70 | STEAM MAIN DRP | OK | HAS NEW 1/2" SPRAXL B1H-125. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH SPRAXL #8004 REPAIR KIT. STEAM PRESSURE GAUGE IS MISSING. INSPECTED 7/31/12. | | | X | | | | | | | | | | | |
| 179 | 1ST FL. SPD OVERHEAD DRP ABOVE STERILIZER #1 | 3-1-1 | 3 AND 4 | B | 12 | 3/4" SPRAXL B1H-125 | 70 | STEAM MAIN DRP | OK | HAS NEW 3/4" SPRAXL B1H-125. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH SPRAXL #8004 REPAIR KIT. INSPECTED 7/31/12. | | | | | | | | | | | | | | |
| 180 | 1ST FL. SPD STERILIZER DRP #2 | 3-1-1 | 3 AND 4 | B | 3 | 1/2" SPRAXL B1H-125 | 70 | STEAM MAIN DRP | OK | HAS NEW 3/4" SPRAXL B1H-125. REPAIR DEFECTIVE STEAM TRAP WITH SPRAXL #8004 REPAIR KIT. INSPECTED 7/31/12. | | | X | | | | | | | | | | | |
| 181 | 1ST FL. SPD STERILIZER #3 DRP TRAP | 3-1-1 | 3 AND 4 | B | 4 | 1/2" SPRAXL B1H-125 | 70 | STEAM MAIN DRP | OK | HAS NEW 3/4" SPRAXL B1H-125. REPAIR DEFECTIVE STEAM TRAP WITH SPRAXL #8004 REPAIR KIT. INSPECTED 7/31/12. | | | X | | | | | | | | | | | |
| 182 | 1ST FL. SPD CART WASHER ROOM 115 CLOSET | 3-1-1 | 3 AND 4 | D | 4 | 3/4" SPRAXL TD-2SL | 70 | STEAM MAIN DRP | BT | REPLACE DEFECTIVE STEAM TRAP WITH NEW 3/4" SPRAXL B1H-125 OR 3/4" ARMSTRONG #881-1-25 INVERTED BUCKET STEAM TRAP. INSPECTED 7/31/12. | | | X | | | | | | | | | | | |
| 183 | 1ST FL. SPD CART WASHER ROOM 115 CLOSET | 3-1-1 | 3 AND 4 | D | 3 | 1" SPRAXL TD-2SL | 70M | STEAM COIL | OK | STEAM TRAP IS OK. BUT SHOWS WEAR. WHEN WORK, REPLACE WITH NEW 1" SPRAXL B3 OR 1" ARMSTRONG B1-1-125 INVERTED BUCKET STEAM TRAP. INSPECTED 7/31/12. | | | X | | | | | | | | | | | |
| 184 | 1ST FL. SPD STEAM SUPPLY ROOM NEXT TO CART WASHER | 3-1-1 | 3 AND 4 | B | 9 | 3/4" SPRAXL B1H-125 | 70 | STEAM MAIN DRP | OK | HAS NEW 3/4" SPRAXL B1H-125. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH SPRAXL #8004 REPAIR KIT. TRAP IS BEHIND SS PANEL. INSPECTED 8/1/12. | | | X | | | | | | | | | | | |
| 185 | 1ST FLOOR MECH. ROOM B-309 HEAT EXCHANGER | 3-1-1 | 4 | F | 5 | 1 1/2" SPRAXL FT-15 | 10M | HEAT EXCHANGER | OK | HAS NEW 1 1/2" SPRAXL FT-15. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH TUNSTALL #IRK-S-15 REPAIR KIT. HAS VACUUM BREAKER IN STEAM INLET SIDE OF SHELL. STEAM TRAP OUTLET IS BUSHED DOWN TO 3/4". NOTE: IB-309 MECH. ROOM IS TOO HOT. MOST STEAM VALVES ARE BARE. NEEDS INSULATION COVERS. INSPECTED 8/1/12. | | | | | | | | | | | | X | | |
| 186 | 1ST FLOOR MECH. ROOM B-309 HEAT EXCHANGER | 3-1-1 | 4 | F | 5 | 1 1/2" SPRAXL FT-15 | 10M | HEAT EXCHANGER | OK | HAS NEW 1 1/2" SPRAXL FT-15. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH TUNSTALL #IRK-S-15 REPAIR KIT. HAS VACUUM BREAKER IN STEAM INLET SIDE OF SHELL. STEAM TRAP OUTLET IS BUSHED DOWN TO 3/4". NOTE: IB-309 MECH. ROOM IS TOO HOT. MOST STEAM VALVES ARE BARE. NEEDS INSULATION COVERS. INSPECTED 8/1/12. | | | | | | | | | | | | X | | |
| 187 | 1ST FLOOR MECH. ROOM B-309 HEAT EXCHANGER | 3-1-1 | 4 | F | 5 | 1 1/2" SPRAXL FT-15 | 10M | HEAT EXCHANGER | OK | HAS NEW 1 1/2" SPRAXL FT-15. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH TUNSTALL #IRK-S-15 REPAIR KIT. HAS VACUUM BREAKER IN STEAM INLET SIDE OF SHELL. STEAM TRAP OUTLET IS BUSHED DOWN TO 3/4". NOTE: IB-309 MECH. ROOM IS TOO HOT. MOST STEAM VALVES ARE BARE. NEEDS INSULATION COVERS. INSPECTED 8/1/12. | | | | | | | | | | | | X | | |
| 188 | 1ST FLOOR MECH. ROOM B-309 HEAT EXCHANGER | 3-1-1 | 4 | F | 5 | 1 1/2" SPRAXL FT-15 | 10M | HEAT EXCHANGER | OK | HAS NEW 1 1/2" SPRAXL FT-15. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH TUNSTALL #IRK-S-15 REPAIR KIT. HAS VACUUM BREAKER IN STEAM INLET SIDE OF SHELL. STEAM TRAP OUTLET IS BUSHED DOWN TO 3/4". NOTE: IB-309 MECH. ROOM IS TOO HOT. MOST STEAM VALVES ARE BARE. NEEDS INSULATION COVERS. 2 FT OF 3" BARE 10" S60 STEAM PIPE HAS (1) 90 DEG EL. NEEDS INSULATION. INSPECTED 8/1/12. | | | | | | | | | | | | X | | |
| 190 | EAST PENHOUSE STAIRWELL #6 #2B-900 EAST-C-1 AHU HUMIDIFIER | 3-2-5 | 5 | F | 3 | 3/4" ARMSTRONG 15-83 | 10M | HUMIDIFIER DRP | CP | STEAM TRAP IS COOL, SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #IRK-15-83 REPAIR KIT. INSPECTED 8/2/12. | | | | | | X | | | | | | | | |
| 191 | EAST PENHOUSE #2B-900 EAST-D-1 AHU HUMIDIFIER | 3-2-5 | 5 | F | 2 | 3/4" ARMSTRONG 15-83 | 10M | HUMIDIFIER DRP | CP | STEAM TRAP IS COOL, SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #IRK-15-83 REPAIR KIT. INSPECTED 8/2/12. | | | | | | X | | | | | X | | | |
| 192 | EAST PENHOUSE #2B-900 EAST-D-1 AHU HUMIDIFIER | 3-2-5 | 5 | F | 2 | 3/4" ARMSTRONG 15-83 | 10M | HUMIDIFIER DRP | CP | STEAM TRAP IS COOL, SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #IRK-15-83 REPAIR KIT. INSPECTED 8/2/12. | | | | | | X | | | | | | | | |
| 193 | EAST PENHOUSE #2B-900 EAST-D-1 AHU HUMIDIFIER | 3-2-5 | 5 | F | 3 | 3/4" ARMSTRONG 15-83 | 10M | HUMIDIFIER DRP | CP | STEAM TRAP IS COOL, SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #IRK-15-83 REPAIR KIT. INSPECTED 8/2/12. | | | | | | X | | | | | X | | | |
| 194 | EAST PENHOUSE #2B-900 EAST-D-2 AHU HUMIDIFIER | 3-2-5 | 5 | F | 3 | 3/4" ARMSTRONG 15-83 | 10M | HUMIDIFIER DRP | CP | STEAM TRAP IS COOL, SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #IRK-15-83 REPAIR KIT. INSPECTED 8/2/12. | | | | | | X | | | | | X | | | |
| 195 | EAST PENHOUSE #2B-900 EAST-D-2 AHU HUMIDIFIER | 3-2-5 | 5 | F | 2 | 3/4" ARMSTRONG 15-83 | 10M | HUMIDIFIER DRP | CP | STEAM TRAP IS COOL, SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #IRK-15-83 REPAIR KIT. INSPECTED 8/2/12. | | | | | | X | | | | | | | | |
| 196 | EAST PENHOUSE #2B-900 EAST-D-2 AHU HUMIDIFIER | 3-2-5 | 5 | F | 2 | 3/4" ARMSTRONG 15-83 | 10M | HUMIDIFIER DRP | CP | STEAM TRAP IS COOL, SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #IRK-15-83 REPAIR KIT. INSPECTED 8/2/12. | | | | | | X | | | | | | | | |
| 197 | EAST PENHOUSE #2B-900 EAST-D-2 AHU HUMIDIFIER | 3-2-5 | 5 | F | 3 | 3/4" ARMSTRONG 15-83 | 10M | HUMIDIFIER DRP | CP | STEAM TRAP IS COOL, SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #IRK-15-83 REPAIR KIT. INSPECTED 8/2/12. | | | | | | X | | | | | X | | | |
| 198 | EAST PENHOUSE #2B-900 EAST-D-2 AHU STEAM COIL, RIGHT | 3-2-5 | 5 | F | 12 | 1 1/4" SPRAXL FT-15 | 10M | STEAM COIL | OK | STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #IRP-S-15 FACE PLATE KIT. STEAM SERVICE VACUUM BREAKER IN COIL OUTLET. INSPECTED 8/2/12. | | | | | | X | | | | | | | | |
| 199 | EAST PENHOUSE #2B-900 EAST-D-2 AHU STEAM COIL, LEFT | 3-2-5 | 5 | F | 12 | 1 1/4" WATTS WFT-15 | 10M | STEAM COIL | OK | STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #IRP-S-15 FACE PLATE KIT. STEAM SERVICE VACUUM BREAKER IN COIL OUTLET. INSPECTED 8/2/12. | X | | | | | | | | | | | | | |
| 200 | EAST PENHOUSE #2B-900 EAST-D-3 AHU HUMIDIFIER | 3-2-5 | 5 | F | 2 | 3/4" ARMSTRONG 15-83 | 10M | HUMIDIFIER DRP | CP | STEAM TRAP IS COOL, SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #IRK-15-83 REPAIR KIT. INSPECTED 8/2/12. | | | | | | X | | | | | | | | |
| 201 | EAST PENHOUSE #2B-900 EAST-D-3 AHU HUMIDIFIER | 3-2-5 | 5 | F | 1 | 3/4" ARMSTRONG 15-83 | 10M | HUMIDIFIER DRP | OK | STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #IRK-15-83 REPAIR KIT. INSPECTED 8/2/12. | | | | | | | | | | | | | | |
| 202 | EAST PENHOUSE #2B-900 EAST-D-3 AHU STEAM COIL | 3-2-5 | 5 | F | 8 | 1 1/4" SPRAXL FT-15 | 10M | STEAM COIL | OK | STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #IRP-S-15 FACE PLATE KIT. STEAM SERVICE VACUUM BREAKER IN COIL OUTLET. INSPECTED 8/2/12. | | | | | | | | | | | X | | | |
| 203 | EAST PENHOUSE #2B-900 EAST-D-3 AHU STEAM COIL | 3-2-5 | 5 | F | 7 | 2" SPRAXL FT-15 | 10M | STEAM COIL | OK | STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #IRK-S-15 FACE PLATE REPAIR KIT. TRAP HAS STEAM SERVICE VACUUM BREAKER ON BOTH COIL INLET AND OUTLET. OK. INSPECTED 8/2/12. | | | | | | | | | | | | X | | |
| 204 | EAST PENHOUSE #2B-900 EAST-D-4 AHU HUMIDIFIER | 3-2-5 | 5 | F | 1 | 3/4" ARMSTRONG 15-83 | 15M | HUMIDIFIER DRP | OK | STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #IRK-15-83 REPAIR KIT. INSPECTED 8/2/12. | X | | | | | | | | | | | | | |
| 205 | EAST PENHOUSE #2B-900 EAST-D-4 AHU HUMIDIFIER | 3-2-5 | 5 | F | 1 | 3/4" ARMSTRONG 15-83 | 15M | HUMIDIFIER DRP | OK | STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #IRK-15-83 REPAIR KIT. INSPECTED 8/2/12. | X | | | | | | | | | | | | | |

NOTES:
1. CORRECT PIPING AS NOTED IN REMARKS COLUMN.

COLUMN REFERENCE NOTES:

- ① FURNISH AND INSTALL AN ACOUSTIC WIRELESS STEAM TRAP MONITORING SENSOR PER SPECIFICATIONS, SECTION 222213.
- ② REMOVE OR REPAIR STEAM TRAP IN ACCORDANCE WITH DESCRIPTION IN REMARKS COLUMN.
- ③ REPLACE STEAM TRAP AND ALL ABANDONED CONDENSATE PIPING TO A POINT WHERE THE CONDENSATE LINE IS LIVE. CAP.
- ④ REPAIR STEAM/CONDENSATE LEAK IN ACCORDANCE WITH DESCRIPTION IN REMARKS COLUMN.
- ⑤ COOL STEAM TRAPS. REPAIR THE VALVES, CONTROLS ETC. AS DESCRIBED IN THE REMARKS COLUMN. INVESTIGATE AND DETERMINE THE REASON FOR ANY OTHER NONFUNCTIONING STEAM TRAP THAT WERE FOUND TO BE COOL. FIX ALL ITEMS FOUND TO BE NEEDING REPAIR. FOR PURPOSES OF THIS BID, ASSUME THE CONTROL VALVES REQUIRE REPAIR OR REPLACEMENT.)
- ⑥ REPLACE THE EXISTING COPPER PIPING WITH NEW STEEL PIPE AND REPLACE THE EXISTING DIELECTRIC UNIONS AND WIPERS WITH EQUIVALENT SIZES. SEE THE REMARKS COLUMN FOR REQUIRED WORK. SEE THE SPECIFICATIONS FOR THE REQUIRED MATERIALS AND FITTINGS. INSULATE ALL NEW & EXISTING BARE PIPE.
- ⑦ FURNISH AND INSTALL NEW STEAM VACUUM BREAKERS IN ACCORDANCE WITH THE REMARKS COLUMN.

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| CONSULTANTS: | | ARCHITECT: | |
| FREDERICK, FREDERICK & HELLER 10011 CLEVELAND AVENUE BROADVIEW HTS., OHIO 44147 Tel: (440) 344-2444 Fax: (440) 344-2444 | | Approved: Project Director VAHC - WADE PARK Location: 12-21-12 Checked: WFM Drawn: JMF | |
| Project Title: STEAM TRAP MONITORING, INSULATION AND PIPING UPGRADES | | Project Number: 541-12-115 | |
| Drawing Title: TRAPS 171-205 | | Building Number: 1 | |
| Drawing Number: 2-05 | | Office of Facilities Management | |

